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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,341	12/16/2003	Russell L. Holden	LOT920030052US1	9103
23550 7590 03/14/2008 HOFFMAN WARNICK & D'ALESSANDRO, LLC 75 STATE STREET 14TH FLOOR			EXAMINER	
			TIMBLIN, ROBERT M	
ALBANY, NY 12207		ART UNIT	PAPER NUMBER	
			2167	
			NOTIFICATION DATE	DELIVERY MODE
			03/14/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOCommunications@hwdpatents.com

	Application No.	Applicant(s)				
	10/737,341	HOLDEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	ROBERT TIMBLIN	2167				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 De	Responsive to communication(s) filed on <u>27 December 2007</u> .					
	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowan	, 					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1,5-8,12-15 and 19-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,5-8,12-15 and 19-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner	t.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex		, <i>,</i>				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 						
* See the attached detailed Office action for a list of the control of the contro	4)	(PTO-413) te				
Paper No(s)/Mail Date 6) U Other:						

This Office Action corresponds to application 10/737,341 filed 12/16/2003. Claims 1, 5-

8, 12-15, and 19-21 have been examined and are pending.

Response to Amendment

Claims 1, 8, and 15 have been amended while claims 2-4, 9-11, 16-18 and 22 have been

cancelled. Accordingly, claims 1, 5-8, 12-15, and 19-21 are pending in this application.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions

and requirements of this title.

Claim 8 and the depending claims therefrom are rejected under 35 U.S.C. 101 because

claim 8 is directed towards a system that does not include hardware. In a system without

hardware, claim 8 is therefore considered software (or functional descriptive material per se),

which is not statutory under 35 U.S.C. 101. See MPEP 2106.01.

If Applicant intends to claim a "software" system, the system needs to be stored in

memory or other computer readable storage medium. If Applicant intends to claim a bounce-

back prevention system as a machine, there needs to be some form of a structural part of a device

or combination of devices as part of what is claimed. As claim 8 is phrased, there is no structure

presented to make the supposed system actually be a machine.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benson (U.S. Patent 5,819,272) in view of Strickler et al (U.S. Patent 6,122,630).

With respect to claim 1 Benson teaches A method for preventing an unread activity associated with a read/unread status of an email from being bounced-back to an originating server during a replication operation, comprising:

storing an identification (drawing reference 34) of an originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1), of a replicated unread activity (i.e. read/unread data set, drawing reference 38, and also a change number (CN) that is unique to the server on which the number was assigned) in an unread log (drawing reference 28) of a receiving server (i.e. replica server, col. 2 line 13-14, figure 1);

during a subsequent replication process (col. 1 line 53-55 and line 23-25) initiated by the receiving server (col. 1 line 23-25 and col. 7 line 18-20);

during the subsequent replication process (col. 1 line 53-55 and line 23-25), replicating the unread activity (col. 2 line 11-17) to at least one other server not identified as the originating server (col. 1 line 56-57, and col.4 line 41-42);

wherein storing an identification (drawing reference 34) further comprises updating the unread log (drawing reference 28, col. 2 line 29-31) to include an unread entry (drawing reference 38) corresponding to the replicated unread activity (i.e. read/unread data set, drawing reference 38), and storing the identification of the originating server (drawing reference 34) with the unread entry (drawing references 28, 34 and 38); and

examining (col. 2 line 24-28) the unread log (drawing reference 28) to determine (i.e. identifying the last server from which the data was updated, col. 2 line 24-25) if any unread entries (drawing reference 38) stored therein correspond to an unread activity (drawing reference 38) received from the originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1) and, during the subsequent replication process (col. 1 line 53-55 and line 23-25), not replicating any unread activity identified as being received from the originating server back to the originating server (col. 2 line 14-16 and col. 4 line 60-61).

While Benson discloses writing back changes to reflect records that are read (col. 2 line 14-16) and not performing a write back in the absence of data changes of read/write data to suggest that unread activity is not written back to the originating server, Benson does not explicitly state preventing replication of the unread activity back to the originating server.

Stickler, however, explicitly states inhibiting a local node from posting selective transactions which were detected as being originally sent by a local node (abstract, last 5 lines and col. 6 lines 20-25) to control replication back to a local server and thus teaching preventing replication of the unread activity back to the originating server.

In the same field of endeavor, (i.e. data replication), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Strickler's teachings of inhibiting (i.e. preventing) the posting of transactions (i.e. unread activity) back to a local node (i.e. home server of Benson) would have been beneficial to Benson for reducing replication latency (a need shown by Benson at col. 1 line 46). Strickler provides a low-latency replication scheme by limiting a "ping-pong" (or in other words, a bounce back) effect of bidirectional replication. Further, Strickler's teachings would have provided Benson with a method to control replication so that write backs of unread activity are not posted to the originating server and thereby ensuring only changed data is written back to the home server (as needed by Benson at col. 4 line 60-61).

With respect to claim 8, Benson teaches a bounce-back prevention system, comprising:

a receiving server (i.e. replica server, col. 2 line 13-14, figure 1) for receiving an unread activity (i.e. read/unread data set, drawing reference 38), associated with a read/unread status of an email (col. 4 line 57-61) and replicated by an originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1), the receiving server (i.e. replica server, col. 2 line 13-14, figure 1) including an unread log for storing an identification (drawing reference 34) of the originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1);

a subsequent replication process (col. 1 line 53-55 and line 23-25) initiated by the receiving server (col. 1 line 23-25 and col. 7 line 18-20);

wherein the receiving server (i.e. replica server, col. 2 line 13-14, figure 1) further comprises a replication system, and wherein the replication system (col. 1 line 23-25 and col. 7 line 18-20) of the receiving server (i.e. replica server, col. 2 line 13-14, figure 1) replicates the unread activity (drawing reference 38) to at least one other server not identified as the originating

server (col. 1 line 56-57, and col.4 line 41-42) during the subsequent replication process (col. 1 line 53-55 and line 23-25);

wherein the receiving server (i.e. replica server, col. 2 line 13-14, figure 1) further comprises a system for updating the unread log (drawing reference 28, col. 2 line 29-31) to include an unread entry (drawing reference 38) corresponding to the replicated unread activity (i.e. read/unread data set, drawing reference 38), and for storing the identification (drawing reference 34) of the originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1) with the unread entry (drawing reference 38); and

a system for examining the unread log to determine if any unread entries stored therein correspond to an unread activity (i.e. read/unread data set, drawing reference 38) received from the originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1), and a system for preventing any unread activities (i.e. read/unread data set, drawing reference 38), identified by the examining system as being received from the originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1), from being replicated back to the originating server, during the subsequent replication process (col. 1 line 53-55 and line 23-25).

While Benson discloses writing back changes to reflect records that are read (col. 2 line 14-16) and not performing a write back in the absence of data changes of read/write data to suggest that unread activity is not written back to the originating server, Benson does not explicitly state preventing replication of the unread activity back to the originating server.

Stickler, however, explicitly states inhibiting a local node from posting selective transactions which were detected as being originally sent by a local node (abstract, last 5 lines and col. 6 lines 20-25) to control replication back to a local server and thus teaching preventing replication of the

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unread activity back to the originating server.

In the same field of endeavor, (i.e. data replication), it would have been obvious to one of

ordinary skill in the data processing art at the time of the present invention to combine the

teachings of the cited references because Strickler's teachings of inhibiting (i.e. preventing) the

posting of transactions (i.e. unread activity) back to a local node (i.e. home server of Benson)

would have been beneficial to Benson for reducing replication latency (a need shown by Benson

at col. 1 line 46). Strickler provides a low-latency replication scheme by limiting a "ping-pong"

(or in other words, a bounce back) effect of bidirectional replication. Further, Strickler's

teachings would have provided Benson with a method to control replication so that write backs

of unread activity are not posted to the originating server and thereby ensuring only changed data

is written back to the home server (as needed by Benson at col. 4 line 60-61).

With respect to claim 15, Benson teaches a program product stored on a recordable

medium for preventing an unread activity associated with a read/unread status of an email from

being bounced-back to an originating server during a replication operation, which when executed

on a computer system comprises:

storing an identification (drawing reference 34) of an originating server (i.e. home/first

server, drawing reference 34, col. 2 line 12, and figure 1), of a replicated unread activity (i.e.

read/unread data set, drawing reference 38) in an unread log (drawing reference 28) of a

receiving server (i.e. replica server, col. 2 line 13-14, figure 1);

during a subsequent replication process (col. 1 line 53-55 and line 23-25) initiated by the receiving server (col. 1 line 23-25 and col. 7 line 18-20);

program code for replicating the unread activity (col. 2 line 11-17) to at least one other server not identified as the originating server (col. 1 line 56-57, and col.4 line 41-42);

wherein the program code for storing an identification (drawing reference 34) further comprises updating the unread log (drawing reference 28, col. 2 line 29-31) to include an unread entry (drawing reference 38), and program code for storing the identification of the originating server (drawing reference 34) with the unread entry (drawing references 28, 34 and 38); and

program code for examining (col. 2 line 24-28) the unread log (drawing reference 28) to determine (i.e. identifying the last server from which the data was updated, col. 2 line 24-25) if any unread entries (drawing reference 38) stored therein correspond to an unread activity (drawing reference 38) received from the originating server (i.e. home/first server, drawing reference 34, col. 2 line 12, and figure 1) and, during the subsequent replication process (col. 1 line 53-55 and line 23-25), not replicating any unread activity identified as being received from the originating server back to the originating server (col. 2 line 14-16 and col. 4 line 60-61).

While Benson discloses writing back changes to reflect records that are read (col. 2 line 14-16) and not performing a write back in the absence of data changes of read/write data to suggest that unread activity is not written back to the originating server, Benson does not explicitly state preventing replication of the unread activity back to the originating server.

Stickler, however, explicitly states inhibiting a local node from posting selective transactions which were detected as being originally sent by a local node (abstract, last 5 lines and col. 6 lines

20-25) to control replication back to a local server and thus teaching preventing replication of the unread activity back to the originating server.

In the same field of endeavor, (i.e. data replication), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Strickler's teachings of inhibiting (i.e. preventing) the posting of transactions (i.e. unread activity) back to a local node (i.e. home server of Benson) would have been beneficial to Benson for reducing replication latency (a need shown by Benson at col. 1 line 46). Strickler provides a low-latency replication scheme by limiting a "ping-pong" (or in other words, a bounce back) effect of bidirectional replication. Further, Strickler's teachings would have provided Benson with a method to control replication so that write backs of unread activity are not posted to the originating server and thereby ensuring only changed data is written back to the home server (as needed by Benson at col. 4 line 60-61).

Claims 5-7, 12-14, and 19-21 rejected under 35 U.S.C. 103(a) as being unpatentable over Benson in view of Stickler and further obvious over Benson.

With respect to claim 5, Benson teaches the method of claim 1, wherein the originating server has a name (i.e. Home_Server_GUID, drawing reference 34).

Benson does not explicitly disclose the identification is a hash of the name of the originating server.

Although Benson does not explicitly disclose the identification is a hash of the name of the originating server, it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to hash the GUID of the home server for the benefit of having compressed identifiers for ease of transmission and thus reducing replication latency (as disclosed by Benson, abstract).

With respect to claim 6, Benson teaches the method of claim 5, wherein during the subsequent replication process, if another server has the same hash as the originating server, the receiving server replicates the unread activity to the other server and back to the originating server (col. 5 lines 60-62 and 56-58, step 70).

With respect to claim 7, Benson teaches the method of claim 6, wherein the originating server discards any duplicate replicated unread activities (col. 5 lines 39-57 suggests keeping single instances of replicated activities).

With respect to claim 12, the system of claim 8, wherein the originating server has a name (i.e. Home Server GUID, drawing reference 34).

Benson does not explicitly disclose the identification is a hash of the name of the originating server.

Although Benson does not explicitly disclose the identification is a hash of the name of the originating server, it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to hash the GUID of the home server for the benefit of Art Unit: 2167

having compressed identifiers for ease of transmission and thus reducing replication latency (as

disclosed by Benson, abstract).

With respect to claim 13, Benson teaches the system of claim 12, wherein the receiving

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system includes a replication system, and wherein during the subsequent replication process, if

another server has the same hash as the originating server, the replication system of the receiving

server replicates the unread activity to the other server and back to the originating server (col. 5

lines 60-62 and 56-58, step 70).

With respect to claim 14, Benson teaches the system of claim 13, wherein the originating

server discards any duplicate replicated unread activities (col. 5 lines 39-57 suggests keeping

single instances of replicated activities).

With respect to claim 19, Benson teaches the program product of claim 15, wherein the

originating server has a name (i.e. Home Server GUID, drawing reference 34).

Benson does not explicitly disclose the identification is a hash of the name of the originating

server.

Although Benson does not explicitly disclose the identification is a hash of the name of

the originating server, it would have been obvious to one of ordinary skill in the data processing

art at the time of the present invention to hash the GUID of the home server for the benefit of

having compressed identifiers for ease of transmission and thus reducing replication latency (as

disclosed by Benson, abstract).

With respect to claim 20, Benson teaches Benson teaches the method of claim 5, wherein

during the subsequent replication process, if another server has the same hash as the originating

server, the receiving server replicates the unread activity to the other server and back to the

originating server (col. 5 lines 60-62 and 56-58, step 70).

With respect to claim 21, Benson teaches the program product of claim 20, wherein the

originating server discards any duplicate replicated unread activities (col. 5 lines 39-57 suggests

keeping single instances of replicated activities).

Response to Arguments

Applicant's arguments in the reply filed 12/27/2007 have been fully considered but they

are not persuasive.

In respect to the 35 U.S.C. 101 rejection to claims 8 and depending claims 12-14,

Applicant's argument that claim 8 includes a "receiving server" and an "originating server" are

insufficient to indicate the system including hardware to become statutory. Specifically, there is

no express indication in the Applicant's disclosure of the system of claim 8 being constructed of

hardware. Further, Applicant's specification at paragraph 0045 states that the present invention

can be realized in hardware, software, or a combination of hardware and software. With the

system being able to be realized in software alone (i.e. software per se) the claims may be

construed as such and therefore remain non-statutory under 35 U.S.C. 101.

In response to applicant's arguments in regards to present claim 1 (i.e. page 9 of the reply), the recitation of the claimed unread activity associated with a read/unread status of an email has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

In response to Applicant's note (see last paragraph of page 8 to top of page 9) that the rejection of claims 5-7, 12-14, and 19-21 are improper, the Examiner respectfully submits that claims 5-7, 12-14, and 19-21 are rejected by Benson and Strickler as applied to the rejection of claims 1, 8, and 15 and are further taught and suggested by Benson. Clarification has been made in the foregoing rejection.

Further, Applicant argues (last paragraph of page 10 in the response) that Strickler does not teach preventing an unread activity associated with a read/unread status of an email.

The Examiner disagrees as Strickler teaches a local node (that sends transactions to be posted) is inhibited from posting selective transactions which were detected as being originally sent by the local node (i.e. last 5 lines of abstract). In other words, the Examiner submits that in Strickler's system, the original transactions are not posted back to the local node that sent them. Here, it is also suggested by Strickler that the transactions that were not changed by other

databases (i.e. an "unread" activity) are prevented from being replicated back to the originating server (local node). The Examiner further submits that the transaction in Strickler can be interpreted as an unread activity in that only the changed and "read" transactions can be posted to the original database (i.e. an unread transaction would represent a transaction with no change).

Strickler also suggests that such a method may be applied in an e-mail system (col. 5 line 13-14).

In the same field of endeavor as Benson, Strickler's system would have given Benson the prevention of writing back data that has not changed to the home server. Benson suggests the need when they teach that unread data that has not changed is not written back (col. 4 line 60-61, Benson). In this instance, the unread activity is an unread email (see Benson, col. 4 line 19-23 wherein messages are specified with "read" or "unread" data records). Also in this instance, Benson suggests that unread emails are not written back to the home server (see Benson, col. 4 line 57-59).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Robert M. Timblin whose telephone number is 571-272-5627.

The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John R. Cottingham can be reached on 571-272-7079. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ROBERT TIMBLIN/

Examiner, Art Unit 2167

/John R. Cottingham/

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Supervisory Patent Examiner, Art Unit 2167